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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/648,385	08/27/2003	Keith E. Dow	2207/807502	5335
23838 7:	590 05/25/2004		EXAMINER	
KENYON & KENYON 1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005			TAKAOKA, DEAN O	
			ART UNIT	PAPER NUMBER
			2817	
•			DATE MAILED: 05/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Ø				
	10/648,385	DOW ET AL.					
Office Action Summary	Examin r	Art Unit					
	Dean O Takaoka	2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status			•				
1) Responsive to communication(s) filed on	_•						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.	,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 13-19 is/are pending in the application	1.		•				
4a) Of the above claim(s) is/are withdraw							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>13 and 15-17</u> is/are rejected.	6)⊠ Claim(s) <u>13 and 15-17</u> is/are rejected. 7)⊠ Claim(s) <u>14,18 and 19</u> is/are objected to.						
7)⊠ Claim(s) <u>14,18 and 19</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10)⊠ The drawing(s) filed on <u>29 December 1999</u> is/are: a) accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
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Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/4/03.							

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DETAILED ACTION

Priority

An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence of the specification of in an application data sheet (37 CFR 1.78(a)(2) and (a)(5)). The specific reference to any prior nonprovisional application must include the relationship (i.e., continuation, divisional, or continuation-in-part) between the applications except when the reference is to a prior application of a CPA assigned the same application number.

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "ground plane for connecting said signal trace to ground" (claim 13); "zipper cut" (claim 17); and "a plurality of said cuts are similarly located with a PCB layer) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the

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applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 13 and 15 – 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Pankinaho (U.S. Patent No. 6,140,966) as taught by Bräckelmann et al. (German Patent No. 2444228).

Claim 13:

Pankinaho (best shown in Fig. 12a – 12c) shows an apparatus to decrease resonance in a printed circuit board (col. 8, lines 21-33) comprising: a signal trace line for carrying a signal (radiating element 100); a ground plane (140) for connecting the signal trace line to ground (thru vias 110, 120, and/or 130 shown in Figs. 8, 9,10a and col. 8, lines 14-16); and a cut in the ground plane (141) where the cut inherently increases the transit time of the signal through the ground plane (where Bräckelmann et al. shows a similar notch in a ground plane where the cut increases the transit time of the signal through the ground plane; where wave impedance is increased, inductance is increased, and signal propagation is changed for multiple conductors – translation pages 2 thru 5).

Claim 15:

Where the cut is oriented substantially perpendicular to a long axis of the PCB (where the cut of Pankinaho is rectangular, thus having a cut side where the cut side is oriented substantially perpendicular to a long axis of the PCB).

Claim 16:

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Where the cut is continuous (where the rectangular cut, with no intermediate material is continuous – Fig, 12b).

Claim 17:

Where the cut is a zipper cut (where notch of Pankinaho is zig-zag – col. 8, lines 43-45; or in the alternative where Pankinaho shows a plurality of cuts in Fig 12c, defined by the Examiner as zipper cuts).

Allowable Subject Matter

Claims 14, 18 and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dean O Takaoka whose telephone number is (571) 272-1772. The examiner can normally be reached on 8:30a - 5:00p Mon - Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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May 19, 2004